

# LEAD & COPPER



## DATABASE OUTLINE

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## PROJECT DESCRIPTION

**OBJECTIVE:**

Create a database to log lead and copper sample results.

**PURPOSE:**

To track Lead & Copper results from routine and non-routine sample tests. The database will also be used to generate and track mail merge documents for sending lead and copper letters to DCWASA customers within 3 days.

**BENEFITS:**

- Quicker response time to customers
- Electronic file storage and backup
- The ability to produce statistics reports

## LEAD & COPPER DATABASE SUMMARY SHEET

Location Information Table		
Field Name	Data Type	Description
LocationPk	AutoNumber	Primary Key
Address	Text	Address of Customer
FName	Text	First name of customer
LName	Text	Last name of customer
Quadrant	Text	SE, SW, NE, NW
City	Text	Default Value "Washington, DC"
Zip	Text	Zip code
Pipe Material	Text	Brass, Copper, Lead, Unknown
Routine	Yes/No	Routine check

Sample Results Table		
Field Name	Data Type	Description
SamplePk	AutoNumber	Primary Key
LocationPk	Number	Foreign Key (Lookup)
SampleID	Text	Sample ID number
Analysis Date	Date/Time	Date Analyzed
Collection Date	Date/Time	Date Collected
Lead (ppb) 1 <sup>st</sup> Draw	Text	Lead parts per billion
Lead (ppb) 2 <sup>nd</sup> Draw	Text	Lead parts per billion
Copper (ppb) 1 <sup>st</sup> Draw	Text	Copper parts per billion
Copper (ppb) 2 <sup>nd</sup> Draw	Text	Copper parts per billion
Iron (ppb) 1 <sup>st</sup> Draw	Text	Iron parts per billion
Iron (ppb) 2 <sup>nd</sup> Draw	Text	Iron parts per billion

\*There is a 1 to many relationship between "Location Information Table" and "Sample Results Table"

## APPENDIX

**FIGURE 1. LEAD & COPPER SWITCHBOARD**



**Figure 2. LEAD & COPPER ENTRY FORM**

The screenshot shows a web-based form titled "LEAD & COPPER MONITORING" with an "EXIT" button in the top right. The form is divided into two main sections. The left section contains a "Routine?" checkbox (checked "YES"), a "Pipe Material:" dropdown menu (set to "Lead"), and fields for "First name:" (MONK), "Last Name:" (TOPPING), "Address:" (202 11TH ST), "Quadrant:" (SE), "City:" (Washington, DC), and "Zip Code:" (20011). The right section, titled "Sample Results Subform", contains a "SAMPLE RESULTS" table with fields for "Sample ID:", "Analysis Date:", "Collection Date:", and rows for "Lead (ppb) 1st Draw:", "Lead (ppb) 2nd Draw:", "Iron (ppb) 1st Draw:", "Iron (ppb) 2nd Draw:", "Copper (ppb) 1st Draw:", and "Copper (ppb) 2nd Draw:". The table shows values: 0.5, ND, 23, ND, 230, and 16 respectively. Below the table is a record navigation bar showing "Record: 1 of 1".

Annotations with arrows point to specific parts of the form:

- An arrow points from the "Enter Customer Information" box to the "First name:" and "Last Name:" fields.
- An arrow points from the "Enter 1 or more 'Sample Results' by navigating to a blank 'Sample Results' Form" box to the "Sample ID:" field.
- An arrow points from the "Enter 'Sample Results.'" box to the "Lead (ppb) 1st Draw:" and "Iron (ppb) 1st Draw:" fields.

LEAD & COPPER MONITORING	
<b>Routine?</b> <input checked="" type="checkbox"/> YES	
<b>Pipe Material:</b> Lead	
<b>First name:</b> MONK	<b>Last Name:</b> TOPPING
<b>Address:</b> 202 11TH ST	
<b>Quadrant:</b> SE	<b>City:</b> Washington, DC
<b>Zip Code:</b> 20011	

  

Sample Results Subform	
SAMPLE RESULTS	
<b>Sample ID:</b>	0402077-003
<b>Analysis Date:</b>	2/17/2004
<b>Collection Date:</b>	2/9/2004
<b>Lead (ppb) 1st Draw:</b>	0.5
<b>Lead (ppb) 2nd Draw:</b>	ND
<b>Iron (ppb) 1st Draw:</b>	23
<b>Iron (ppb) 2nd Draw:</b>	ND
<b>Copper (ppb) 1st Draw:</b>	230
<b>Copper (ppb) 2nd Draw:</b>	16

Record: 1 of 1